

Translation

PATENT COOPERATION TREATY

PCT

PCT/JP2003/016722



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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference W1363-00	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/JP2003/016722	International filing date (day/month/year) 25 December 2003 (25.12.2003)	Priority date (day/month/year) 06 January 2003 (06.01.2003)
International Patent Classification (IPC) or national classification and IPC C07C 27/14, 29/50, 31/12, 45/35, 49/10, C07B 61/00		
Applicant ASAHI KASEI CHEMICALS CORPORATION		

- This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 3 sheets, including this cover sheet.
- This report is also accompanied by ANNEXES, comprising:
 - ☒ (sent to the applicant and to the International Bureau) a total of 4 sheets, as follows:
 - ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
 - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
 - ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

- This report contains indications relating to the following items:

- ☒ Box No. I Basis of the report
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

Date of submission of the demand 26 February 2004 (26.02.2004)	Date of completion of this report 26 November 2004 (26.11.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/016722

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language _____, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
- ☐ publication of the international application (under Rule 12.4)
- ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☐ The international application as originally filed/furnished
- ☒ the description:
- pages _____ 1, 2, 5-23 _____, as originally filed/furnished
- pages* _____ 3, 4 _____ received by this Authority on _____ 30 August 2004 (30.08.2004)
- pages* _____ received by this Authority on _____
- ☒ the claims:
- pages _____ 2, 15 _____, as originally filed/furnished
- pages* _____, as amended (together with any statement) under Article 19
- pages* _____ 1, 3, 5-14 _____ received by this Authority on _____ 30 August 2004 (30.08.2004)
- pages* _____ received by this Authority on _____
- ☐ the drawings:
- pages _____, as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☒ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☒ the claims, Nos. _____ 4 _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP03/16722

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-3, 5-15	YES
	Claims		NO
Inventive step (IS)	Claims	1-3, 5-15	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-3, 5-15	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Documents cited in the ISR:

Document 1: GB, 1324717, A (Stamicarbon N.V.), 25 July, 1973 (25.07.73), the claims, & JP, 49-34652, B1, & DE, 2055529, A1, & FR, 2069267, A1

Document 2: US, 3987104, A (Stamicarbon B.V.), 19 October, 1976 (19.10.76), the claims, & JP, 49-61112, A, & GB, 1435784, A, & DE, 2329212, A1, & FR, 2187747, A1

Document 3: GB, 1240858, A (Stamicarbon N.V.), 28 July, 1971 (28.07.71), the claims, & JP, 47-8046, B1, & DE, 1801301, A1, & FR, 1586033, A1

Document 4: EP, 614872, A (Nippon Shokubai Co., Ltd.), 14 September, 1994 (14.09.94), the claims, page 4, lines. 18-36, & JP, 6-262081, A, & US, 5442108, A

Document 5: Lectures on Catalyst Engineering: The Design of Catalysts, (Ed. Catalyst Society of Japan), K.K. Kodansha Scientific, 10 December, 1985 (10.12.85), Vol. 5, pages 260-269

Claims 1-3 and 5-15

A feature described in claims 1-3 and 5-15 wherein, in a method of manufacturing an alcohol and/or ketone by having alkene in the gaseous phase in contact with an oxide catalyst containing an oxide of molybdenum and/or tin, when the said oxide catalyst is regenerated in the presence of a gas containing oxygen and returned to the reactor, the carbon substances accumulated on the oxide catalyst returned to the said reactor are controlled to be within a range of 0.1-10 wt%, is neither described in any of the documents cited in the ISR or any of the documents relevant to the subject matters nor obvious to a person skilled in the art.